

CLAIMS

1. A light guide which emits lights incident from an end face from an emitting face disposed along the longitudinal direction while having the lights reflected by the internal face thereof, characterized in that the sectional shape thereof in a direction orthogonal to said longitudinal direction of this light guide has two opposite parabolas or two oval curves, a line segment connecting the focal points of said two opposite parabolas or the focal points of said two oval curves, and a line segment corresponding to said emitting face.
2. The light guide according to Claim 1, characterized in that the side face of the light guide on said emitting face side is substantially parallel to the optical axis.
3. An image reader characterized in that it has an illuminating unit provided with a light source on an end face of the light guide according to Claim 1 or Claim 2, and a lens array for converging on a light receiving element lights radiated from this illuminating unit toward a document and reflected by the document or transmitted by the document, both incorporated into a box.
4. The image reader according to Claim 3, characterized in that two pairs of said illuminating units are arranged, and the illuminating units are so arranged as to cause lights emitted from the emitting faces to irradiate the same area of the face to be read of the document.